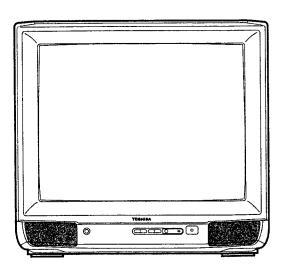
# **TOSHIBA**

# SERVICE MANUAL

# COLOUR TELEVISION

C4E-R Chassis

# 2562TR



#### SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

#### X-RAY RADIATION PRECAUTION

- 1. The E.H.T. must be checked every time the receiver is serviced to ensure that the C.R.T. does not emit X-ray radiation as result of excessive E.H.T. voltage. The nominal E.H.T. for this receiver is 26.8 kV at zero beam current (minimum brightness) operating at 220V a.c. The maximum E.H.T. voltage permissible in any operating circumstances must not exceed 27.5 kV. When checking the E.H.T., use the 'High Voltage Check' procedure in this manual using an accurate E.H.T. voltmeter.
- The only source of X-RAY radiation in this receiver is the C.R.T. To prevent X-ray radiation, the replacement C.R.T. must be identical to the original fitted as specified in the Parts List.
- Some components used in this receiver have safety related characteristics preventing the C.R.T. from emitting X-ray radiation.

For continued safety, replacement component should only be made after referring the Product Safety Notice below.

#### SAFETY PRECAUTION

 This receiver has a nominal working E.H.T. voltage of 24.5 kV. Extreme caution should be exercised when working on the receiver with the back removed.

Do not attempt to service this receiver if you are not conversant with the precautions and procedures for working on high voltage equipment.

When handling or working on the C.R.T., always discharge the anode to the receiver chassis before removing the anode cap
The C.R.T., if broken, will violently expel glass

The C.R.T., if broken, will violently expel glass fragments. Use shatter proof goggles and take extreme care while handling.

Do not hold the C.R.T. by the neck as this is a very dangerous practice.

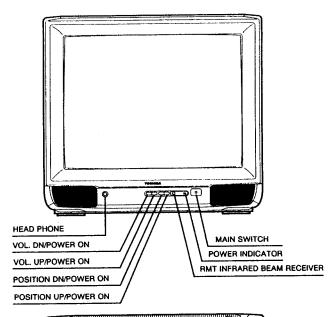
It is essential that to maintain the safety of the customer all cable forms be replaced exactly as supplied from factory.

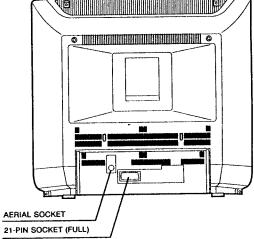
- 3. A small part of the chassis used in this receiver is, when operating, at approximately half mains potential at all times. It is therefore essential in the interest of safety that when serving or connecting any test equipment the receiver should be supplied via a suitable isolating transformer of adequate ration.
- 4. Replace blown fuses within the receiver with the fuse specified in the parts list.
- 5. When replacing wires or components to terminals or tags, wind the leads around the terminal before soldering. When replacing safety components identified by the international hazard symbols on the circuit diagram and parts list, it must be a Toshiba approved type and must be mounted as the original.
- Keep wires away from high temperature components.

#### PRODUCT SAFETY NOTICE

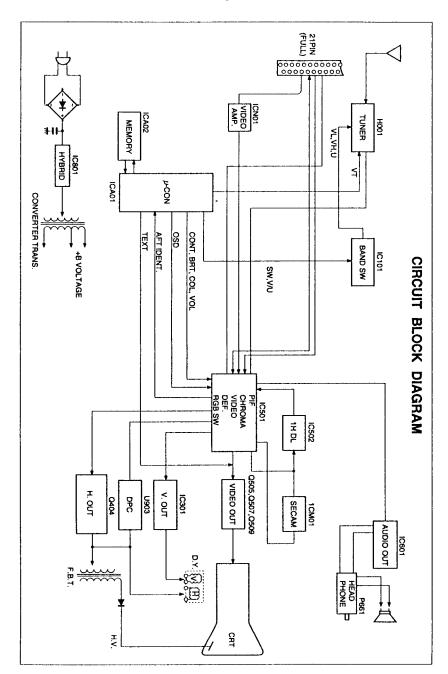
Many electrical and mechanical components in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-ray radiation protection afforded by them cannot necessarily be obtained by using replacements rated at higher voltages or wattage, etc. Components which have these special safety characteristics in this manual and its supplements are identified by the international hazard symbols on the schematic diagram and parts list. Before replacing any of these components read the parts list in this manual carefully. Substitute replacement components which do not have the same safety characteristics as specified in the parts list may create X-ray radiation.

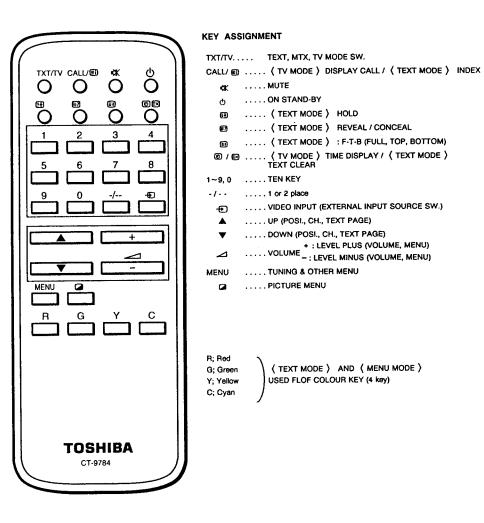
#### FRONT CONTROLS AND REAR VIEWS





### REMOTE HAND HELD UNIT





WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

#### INSTALLATION AND SERVICE ADJUSTMENTS

#### **GENERAL INFORMATIONS**

All adjustments are thoroughly checked and corrected when the receiver leaves the factory. Therefore the receiver should operate normally and produce proper colour and BrW pictures upon installation. However, several minor adjustments may be required depending on the particular location in which the receiver is operated.

This receiver is shipped completely in cardboard carton. Carefully draw out the receiver from the carton and remove all packing materials.

Plug the power cord into a convenient 220 volts 50 Hz AC two pin power outlet. Turn the receiver ON. Check and adjust all the customer controls such as BRIGHTNESS, CONTRAST and COLOUR Controls to obtain natural colour or BW picture.

#### **AUTOMATIC DEGAUSSING**

A degaussing coil is mounted around the picture tube so that external degaussing after moving the receiver is normally unnecessary, providing the receiver is properly degaussed upon installation. The degaussing coil operates for about 1 second after the power to the receiver is switched ON. If the set is moved or faced in a different direction, the power switch must be switched off at least 30 minutes in order that the automatic degaussing circuit operates properly. Should the chassis or parts of the cabinet become magnetized to cause poor colour purity, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube, the sides and front of the receiver and slowly withdraw the coil to a distance of about 2 m before disconnecting it from AC source.

#### HIGH VOLTAGE CHECK

**CAUTION**: There is no HIGH VOLTAGE ADJUST-MENT on this chassis.

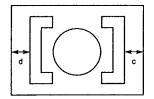
- Connect an accurate high voltage meter to the second anode of the picture tube.
- Turn on the receiver. Set the BRIGHTNESS and CONTRAST Controls to minimum (zero beam current).
- 3. High voltage will be measured below 27.5 kV.
- Rotate the BRIGHTNESS Control to both extremes to be sure the high voltage does not exceed the limit of 27.5 kV under any conditions.

#### HEIGHT ADJUSTMENT

- Receive the WG PHILIPS pattern, and set the contrast and colour to minimum, and the brightness to centre.
- Adjust HEIGHT Control (R351) so that white blocks at top and bottom of the picture are just masked.

#### HORIZONTAL CENTRE ADJUSTMENT

- 1. Receive the WG PHILIPS pattern.
- Set the contrast and colour to minimum, and the brightness to centre.
- Adjust H. CENTER SUB Control (R451) so the pattern can be located for d-c to be +4.0 mm.



#### FOCUS ADJUSTMENT

Adjust FOCUS Control on FLYBACK TRANS. (T461) for well defined scanning lines in the centre area on the screen.

#### DELAYED R-F AGC ADJUSTMENT

- 1. Tune the set in the strongest station in your area.
- Turn AGC DELAY Control (R151) on MAIN Board to fully counterclockwise position.
- Adjust AGC DELAY Control clockwise until noise (snow) disappears on the screen.

#### CRT GREY SCALE ADJUSTMENT

- Press VIDEO INPUT button on Remote Control unit to turn TV to video input mode. (Video input should have no signal.) Next press PICTURE SELECT button to select function and set CONTRAST to minimum, BRIGHTNESS to maximum, COLOUR to minimum.
- Turn the SCREEN Control (on T461) fully counterclockwise.
- Set the RED, GREEN and BLUE CUT OFF Controls (R557, R558, R559) counterclockwise to the centre position.
- 4. Set the GREEN and BLUE DRIVE Controls (R252, R253) to the centre position.
- 5. Set the CUT OFF SW. (S202) in the H. line position.
- 6. Set the SUB BRIGHTNESS Control to minimum.
- Rotate the SCREEN Control gradually clockwise until the first horizontal line of a colour (RED, GREEN or BLUE) appears slightly on the screen.
   Set the SCREEN Control to this position.
- Adjust the CUT OFF Controls to obtain the slightly lighted horizontal lines in the same levels of three colours (RED, GREEN and BLUE).
   The lines may look like white if the CUT OFF Controls are adjusted properly.
- Return the CUT OFF SW. (S202) in the receiving position. Press VIDEO INPUT button to turn TV to the TV mode.
- Set the BRIGHTNESS Control to the maximum and COLOUR Control to the centre.
- Adjust the BLUE and GREEN DRIVE Controls (R252/R253) to obtain proper white-balanced picture in high light areas.
- 12. Set the BRIGHTNESS and CONTRAST Controls to obtain dark grey raster. Then check the white balance in low brightness. If the white balance is not proper, retouch the CUT OFF Controls and DRIVE Controls to obtain a good white balance in both low and high light areas.

#### SUB-BRIGHTNESS ADJUSTMENT

- 1. Tune in a colour programme of Philips pattern.
- Set the CONTRAST Control to the minimum and the BRIGHTNESS Control to the centre.
- 3. Set the COLOUR Control to the minimum.
- Set the SUB-BRIGHT. Control (R551) so that the voltage across terminals Y-Z can be 0.2±0.05V with voltmeter and leave the receiver for five minutes in this state.
- Watching the picture well, adjust the SUB-BRIGHT. Control in the position where the picture does not show evidence of blooming in high bright area and not appear too dark in low bright portion.
- Check the proper picture variation by rotating the CONTRAST and BRIGHTNESS Controls to both extremes.
- 7. If the picture does not appear dark with the CONTRAST and BRIGHTNESS Controls turned to the minimum, or not appear bright with the controls turned to the maximum, adjust the SUB-BRIGHT. Control again for the acceptable picture.

#### **BUS DATA SETTING**

- When QA01 only is replaced, it is not necessary to change the mode data.
- When memory IC (QA02) is replaced, change the mode data in the manner below.

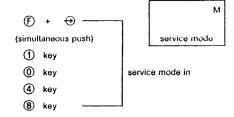
# ADJUSTMEN METHOD FOR SERVICING

#### 1.OUTLINE

In the service mode, MODE DATA adjustments can be made easily with user remote control unit. (CT-9689 only)

#### 2.SERVICE MODE OPERATION

#### 2-1. How to Enter the Service Mode



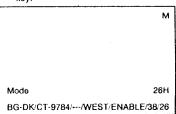
#### 2-2. How to Exit from the Service Mode

Exit the service mode by turning the power on/off with the remote control.

#### 3. ADJUSTMENT IN THE SERVICE MODE

Service Mode Level Adjustments

- (2) Adjust with the level UP/DOWN (VOL UP/DOWN) key.



Example of screen display in level adjustment

# CABINET REPLACEMENT PARTS LIST

PRELIMINARY STEPSSIGNAL GENERATOR	Refer to figure 4 for test equipment connection. Supply $+5$ volts to the 5V-1 line. Connect to both leads of R101 with signal level of 75 dB $_{P}$ , and open the solder-link at IF OUT of tuner on the Main Board. (See figure 4.)
	Connect to pin #44 of IC501 on the Main Board through the detector.

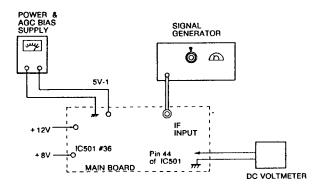
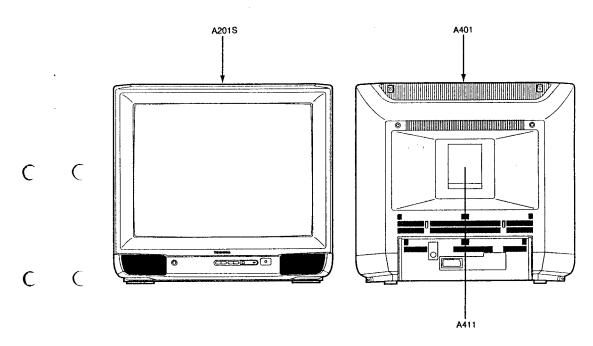


Figure 4. Picture IF Alignment

STEP	SIGNAL GENERATOR	ADJUST	REMARKS
Detector Coil	38.9 MHz CARRIER WAVE (Level 75 dB <sub>µ</sub> )	T103	1. Supply external DC power (+5V) to 5V-1 line. 2. Supply +8V to pin 36 of IC501. 3. Supply external DC power to +12V line. 4. Apply test signal to IF input. 5. Adjust T103 so that DC voltage at pin 44 of IC501 becomes 3.5V ± 0.5V.

After completing the above steps, disconnect the equipment and re-solder the liniks on the Main Board, and adjust the AGC Delay Control (R151) following DELAYED RF AGC ADJUSTMENTS.



(

Location No.	Part No.	Description
A201S △A401 A411	23426410	Front Cover Back Cover Label, Model No.

#### CHASSIS REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CAUTION: The international hazard symbols " \( \Delta \) in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

#### NOTICE:

- •The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- •The PC board assembly with \* mark is no longer available after the end of the production.

#### **ABBREVIATIONS:**

Capacitors....... CD : Ceramic Disk PF : Plastic Film EL : Electrolytic Resistors....... CF : Carbon Film CG : Carbon Composition MF : Metal Film VR : Variable Resistor FR : Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

(All CD a	iliu er capai	citors are ±5%, 50V and all re
Location No.	Part No.	Description
CAPACITO	RS	
C101	24232103	CD, 0.01µF, +80%, -20%
C102	24232103	
C103	24232103	
C104	24232103	
C105	24232103	
C106	24232103	
C107	24794102	
C131	24538474	
C132	24474102	
C133	24474101	
C134	24590104	
C135	24794470	
C136	24232103	
C138	24206229	
C141	24232103	
C142	24794100	
C143	24232103	CD, 0.01µF, +80%, -20%
C144	24206229	EL, 2.2µF, 50V
C145	24353120	
C161	24793101	EL, 100µF, ±20%, 10V
C162	24473560	CD, 56pF
C163	24473560	CD, 56pF
C168	24232103	CD, 0.01μF, +80%, -20%
C190	24232103	CD, 0.01µF, +80%, -20%
C193	24797229	
C195	24232103	CD, 0.01µF, +80%, -20%
C196	24590104	
C197	24590104	PF, 0.1μF
C198	24590104	
C199	24232103	
C201	24590473	
C202	24590473	
C203	24794100	
C205	24794220	
C240	24538474	
C302	24474101	
C303	24590104	
C304		CD, 4700pF, ±10%
C306		PF, 1000pF
C312	24590392	PF, 3900pF

Location No.	Part No.	Description
C313	24538474	PF, 0.47μF
C314	24214151	
C315	24214221	
C317	24617915	
C318	24630798	EL, 3300µF, ±10%, 25kV
C323	24082049	
C325	24668221	EL, 220μF, ±20%, 35V
C326	24232103	CD, 0.01µF, +80%, -20%
C331	24668102	
C332		PF, 0.22μF, 100V
C341		EL, 100µF, ±20%, 16V
C403		EL, 1μF, 50V
C406		PF, 4700pF
C407		PF, 4700pF
C408		EL, 330µF, ±20%, 16V
C409		CD, 0.01µF, +80%, -20%
C410		PF, 5600pF, 100V
C416		
C417		CD, 820pF, ±10%, 500V
C418		EL, 10μF, ±20%, 200V
C419		PF, 0.022μF
C421		PF, 0.47μF, 250V
C422		PF, 0.047μF, 400V
C423		PF, 0.43μF, 250V
C440	24082583	PF, 7200pF, ±3%, 1500V
C441	24214221	CD, 220pF, ±10%, 500V
C443		CD, 220pF, ±10%, 500V
C444	24082517	PF, 5100pF, ±3%, 1800V
C445	24095903	
C446	24666471	
C447	24679479	
C448	24640908	
C449	24667102	
C450	24095887	PF, 0.01μF, ±3%, 630V
C463	24212222	
C464		PF, 1.5μF, 250V
C466		PF, 0.33μF, 250V
C470		EL, 22μF, ±20%, 16V
C471		PF, 0.47μF
C480	24538474	PF, 0.47μF
C481	24666101	EL, 100μF, ±20%, 16V

	-	Location No.	Part No.	Description
	( `	C482	24666101	EL, 100µF, ±20%, 16V
	`	C501	24590104	PF, 0.1μF
		C502	24232103	CD, 0.01μF, +80%, -20%
		C503	24794221	EL, 220µF, ±20%, 16V
		C504	24797478	EL, 0.47μF, ±20%, 50V
		C505	24794100	EL, 10μF, ±20%, 16V
		C506	24473680	CD, 68pF
		C507	24473680	CD, 68pF
•		C508	24473680	CD, 68pF
- 1		C509 C511	24797100 24590104	EL, 10μF, ±20%, 50V PF, 0.1μF
į		C512	24590104	PF, 0.1µF
J		C513	24590104	PF, 0.1μF
		C514	24590472	PF, 4700pF
		C516	24212561	CD, 560pF, ±10%
		C517	24794470	EL, 47μF, ±20%, 16V
		C518	24590473	PF, 0.047μF
		C520	24590102	PF, 1000pF
		C521 C531	24590102 24436561	PF, 1000pF CD, 560pF
	V.,	C531	24436561	CD, 560pF
		C533	24436681	CD, 680pF
		C534	24794471	EL, 470μF, ±20%, 16V
		C536	24797479	EL, 4.7μF, ±20%, 50V
		C601	24795471	EL, 470µF, ±20%, 25V
		C602	24590104	PF, 0.1μF
		C603	24795221	EL, 220µF, ±20%, 25V
		C604	24474221	CD, 220pF, ±10%
		C605	24206010	EL, 1μF, 50V
		C606 C607	24795220 24590682	EL, 22µF, ±20%, 25V PF, 6800pF
		C608	24797010	EL, 1µF, ±20%, 50V
		C609	24794470	EL, 47μF, ±20%, 16V
		C610	24206010	EL, 1μF, 50V
		C611	24212271	CD, 270pF, ±10%
		C612	24212102	CD, 1000pF, ±10%
		C613	24206010	EL, 1μF, 50V
		C616 C617	24797100 24206010	EL, 10µF, ±20%, 50V EL, 1µF, 50V
		C618	24797470	EL, 47µF, ±20%, 50V
		C619	24590332	PF, 3300pF
	1	C620	24797229	EL, 2.2μF, ±20%, 50V
	(	C622	24797010	EL, 1µF, ±20%, 50V
		C624	24232103	CD, 0.01µF, +80%, -20%
		C625	24797470	EL, 47µF, ±20%, 50V
		C626	24232103	CD, 0.01µF, +80%, -20%
		C627 △C801	24232103 24082363	CD, 0.01µF, +80%, -20% PF, 0.22µF, ±20%, AC250V
		△ C802	24094656	CD, 2200pF, ±20%, AC400V
í		<b>∆</b> C803	24094656	CD, 2200pF, ±20%, AC400V
1		<b>△C807</b>	24092281	CD, 4700pF, ±20%, AC250V
i		△ C808	24092281	CD, 4700pF, ±20%, AC250V
J		C809	24086037	EL, 270µF, ±20%, 400V
		C812	24092341	CD, 470pF, ±10%, 2kV
		∆ C813	24095931	PF, 2200pF, 1250V
		C814 C815	24590223 24590182	PF, 0.022μF PF, 1800pF
		C816	24666470	EL, 47μF, ±20%, 16V
		C817	24676220	EL, 22µF, ±20%, 100V
		C820	24794470	EL, 47μF, ±20%, 16V
	,	C828	24212101	CD, 100pF, ±10%
	(	C829	24795102	EL, 1000μF, ±20%, 25V
	•	C830	24092337	CD, 220pF, ±10%, 2kV
		C831	24086953	EL, 220μF, ±20%, 160V
		L		

Location No.	Part No.	Description
C835	24797479	EL, 4.7μF, ±20%, 50V
C836	24797100	EL, 10µF, ±20%, 50V
C837	24797100	EL, 10µF, ±20%, 50V
C838	24538474	PF, 0.47μF
C849	24214471	
C901	24700100	EL, 10µF, ±20%, 250V
C902	24095931	PF, 2200pF, 1250V
CA01		PF, 0.033μF
CA14	24232103	CD, 0.01µF, +80%, -20%
CA15	24794100	EL, 10µF, ±20%, 16V
CA16	24232103	EL, 10μF, ±20%, 16V CD, 0.01μF, +80%, -20%
CA18	24232103	CD, 0.01µF, +80%, -20%
CA19		EL, 47μF, ±20%, 16V
CA20	24474101	CD, 100pF, ±10%
CA21	24435470	CD, 47pF, 500V PF, 0.1µF PF, 0.1µF PF, 0.1µF
CA22	24590104	PF, 0.1μF
CA23	24590104	PF, 0.1μF
CA24	24590104	PF, 0.1μF
CA37 CA39	24590104 24474391	
CA39 CA40	24212221	CD, 390pF, ±10%
CA40	24590104	
CA43	24590104	
CA44		EL, 47µF, ±20%, 16V
CA45	24473560	CD 560F
CA46	24473560	CD 560F
CA47	24212103	CD, 56pF CD, 56pF CD, 0.01µF, ±10%
CA48	24232103	CD. 0.01µF. +80%20%
CA49	24475222	
CA50	24797479	EL. 4.7 uF. ±20%, 50V
CD01	24796220	EL, 4.7µF, ±20%, 50V EL, 22µF, ±20%, 35V
CD06	24796470	EL, 47μF, ±20%, 35V
CD07	24796471	EL, 470µF, ±20%, 35V
CD08	24538124	PF, 0.12μF
CD09	24538124	PF, 0.12μF
CD10	24617981	EL, 2.2µF, ±10%, 50V
CD11	24676339	PF, 0.12μF EL, 2.2μF, ±10%, 50V EL, 3.3μF, ±20%, 100V PF, 0.022μF
CM02	24590223	PF, 0.022μF
CM03	24590104	rr, υ. ιμr
CM04 CN02	24538224	PF, 0.22µF
CN02 CN03	24794100	EL, 10µF, 120%, 10V
CV01	24794101	EL, 10μF, ±20%, 16V EL, 10μF, ±20%, 16V EL, 100μF, ±20%, 16V
CV02	24794101 24793471	EL, 470μF, ±20%, 10V
CV03		CD, 0.01µF, +80%, -20%
CX08	24590104	
CX09	24590104	
CX10	24590104	
		•
RESISTORS		
R101	24366101	CF, 100 ohm
R102	24366103	CF, 10k ohm
R103	24366103	CF, 10k ohm
R104	24366392	CF, 3900 ohm
R105	24366103	CF, 10k ohm
R135	24366682	CF, 6800 ohm
R136	24366122	CF, 1200 ohm
R137	24366681	CF, 680 ohm
R138		CF, 36 ohm
R140	24366104	CF, 100k ohm
R141 R142	24366122 24366472	CF, 1200 ohm CF, 4700 ohm
R142	24366122	CF 1200 ohm
R145	24366102	CF, 1200 ohm CF, 18k ohm
11170	24300103	Cr, TOX OHIN

Location No.	Part No.	Description
R151	24066926	VR, 10k ohm, 1/10W
R161	24366183	CF, 18k ohm
R162	24366681	CF, 680 ohm
R163 R171	24366682 24366153	CF, 6800 ohm CF, 15k ohm
R172	24366101	CF, 100 ohm
R173	24366271	CF, 270 ohm
R174	24366392	CF, 3900 ohm
R175	24366471	CF, 470 ohm
R177	24366101	CF, 100 ohm
R178	24366102	CF, 1k ohm
R179	24366391	CF, 390 ohm
R180 R181	24366331 24366151	CF, 330 ohm CF, 150 ohm
R182	24366820	CF, 82 ohm
R185	24366101	
R186	24366391	CF, 100 ohm CF, 390 ohm
R187	24366223	CF, 22k ohm
R188	24366223	CF, 22k ohm
R189	24366102	CF, 1k ohm
R191	24942226	CC, 22M ohm, 1/2W
R201 R203	24366511 24366473	CF, 510 ohm CF, 47k ohm
R205	24366274	CF, 270k ohm
R206	24366103	
R207	24366103	CF, 10k ohm
R211	24366153	CF, 15k ohm
R212	24366183	
R213	24366911	CF, 910 ohm
R215	24366621	CF, 620 ohm
R217 R240	24366103 24366183	CF, 10k ohm CF, 18k ohm
R241	24366123	CF, 12k ohm
R252	24066596	VR, 500 ohm, 1/10W
R253	24066596	VR, 500 ohm, 1/10W
R301	24366155	CF, 1.5M ohm
R302	24366564	CF, 560k ohm
R304	24366102	CF, 1k ohm
R311 R316	24366101 24366102	CF, 100 ohm CF, 1k ohm
R317	24366103	
R318	24366473	
R319	24383271	OMF, 270 ohm, 2W
R320	24383271	OMF, 270 ohm, 2W
R321	24366303	CF, 30k ohm
R322	24366244	CF, 240k ohm
R323	24322518 24366153	OMF, 0.51 ohm, 1W CF, 15k ohm
R325 R327	24339479	MF, 4.7 ohm, 2W
R330	24321159	MF, 1.5 ohm, 1/2W
R333	24366622	CF, 6200 ohm
R334	24383751	OMF, 750 ohm, 2W
R340	24366473	CF, 47k ohm
R341	24366182	CF, 1800 ohm
R342	24366562	CF, 5600 ohm
R343 R344	24310109 24366392	MF, 1.0 ohm, 1/2W CF, 3900 ohm
R345	24382470	OMF. 47 ohm 1W
R351	24066606	OMF, 47 ohm, 1W VR, 1M ohm, 1/10W
R360	24366392	CF, 3900 ohm
R403	24366153	CF, 15k ohm
R407	24366222	
R409 R410	24366564 24552472	CF, 560k ohm OMF, 4700 ohm, 1/2W

Location	Part No.	Description
No.		
R411	24366271	CF, 270 ohm CF, 220 ohm
R414	24366221	CF, 220 ohm
R415	24382272	OMF, 2700 ohm, 1W
R416	24510562	
R417	24366472	CF, 4700 ohm
R418	24366681	CF, 680 ohm
R419	24366562	CF, 5600 ohm
R420	24366222	CF, 2200 ohm CF, 27k ohm
R422	24366273	CF, 27k Onm
R440	24366103 24366103	CF, 10k ohm CF, 10k ohm
R441 R442	24382102	
	24382102	OMF, 1k ohm, 1W MF, 0.39 ohm, 1W
R444	24533151	FD 150 abov 2047
R446		FR, 150 ohm, 2W MF, 0.33 ohm, 1W
R448	24338338	VP 10k about 1/10/4/
R451 R470	24066600	
	24338568	
R471	24552101	
R472	24376393	
*R474	24366331	CF, 330 ohm
R475	24366102	CF, 1k ohm
R477	24366153	CF, 15k ohm
R480	24546229	FR, 2.2 ohm, 1/2W
R501	24366332	CF, 3300 ohm
R502	24366472	CF, 4700 ohm
R503	24366221	CF, 220 ohm
R504	24366221	CF, 220 ohm
R505	24366221	CF, 220 ohm
R506	24366183	
R512	24366104	
R513	24366473	
R514	24552221	OMF, 220 ohm, 1/2W
R517	24366103	CF, 10k ohm CF, 1k ohm CF, 1k ohm
R521	24366102	CF, IK ONM
R523	24366102	CF, 1k onm
R525	24366102	CF, 1k ohm
R528	24366221	CF, 220 ohm
R529	24366681	
R530	24366472	CF, 4700 ohm CF, 4700 ohm
R531	24366472	
R532	24366122	CF, 1200 ohm CF, 330 ohm
R533	24366331	CF, 330 ONM
R534	24366331	
R535	24366331	CF, 330 ohm
R536	24366152	CF, 1500 OHHI
R537	24366152	CF, 1500 ohm CF, 1500 ohm CF, 1500 ohm CF, 2200 ohm
R538	24366152	CF, 1900 ORM
R540	24366222	CF, 2200 OHM
R541	24366222	CF, 2200 ohm CF, 2200 ohm
R543	24366222	
R547	24552560	OMF, 56 ohm, 1/2W
R548	24366101	VR, 10k ohm, 1/10W VR, 10k ohm, 1/10W VR, 10k ohm, 1/10W
R551	24066600 24066600	VD 10k ohm 1/10W
R557		VR, 10k ohm, 1/10W
R558	24066600	VN, 10K OHIII, 1/1044
R559	24066600 24366270	VR, 10k ohm, 1/10W CF, 27 ohm
R561	24366270	CF, 27 onm CF, 68 ohm
R562		
R563	24366100	CF, 10 ohm
R564	24366181	CF, 180 ohm
	24366181	CF, 180 ohm
R565	04000000	
R574	24366622	CF, 6200 ohm
	24366133	

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Location		
No.	Part No.	Description
	04000450	ONE 151 -h- 200/
R591	24383153	OMF, 15k ohm, 2W
R592	24383153	OMF, 15k ohm, 2W
R593	24383153	
R601	24366339	CF, 3.3 ohm
R602	24366123	CF, 12k ohm
R603	24366182	CF, 1800 ohm
R604	24366103	CF, 10k ohm
R605	24323479	OMF, 4.7 ohm, 2W
R606	24552331	OMF, 330 ohm, 1/2W
R607	24366103	CF, 10k ohm
R608	24552331	OMF, 330 ohm, 1/2W
R615	24366562	CF, 5600 ohm
R616	24366562	CF, 5600 ohm
R618	24366273	CF, 5600 ohm CF, 27k ohm
R621	24366222	CF, 2200 ohm
R622	24366682	
R623		CF, 6800 ohm
R624		CF, 680 ohm
R625	24366104	CF. 100k ohm
R626	24366103	CF, 100k ohm CF, 10k ohm
R627	24300103	CF 15k ohm
		CF, 15k ohm
R628		CF, 100k ohm
R629		CF, 15k ohm
R630		CF, 3900 ohm
R638	24366102	CF, 1k ohm
R639	24366683	CF, 68k ohm
R641	24366103	CF, 10k ohm CF, 15k ohm CF, 3300 ohm
R642	24366153	CF, 15k ohm
R644	24366332	CF, 3300 ohm
R645		CF, 200k ohm
R646		CF, 3900 ohm
R647		CF, 15k ohm
<b>∆R801</b>	24009954	Metal-Glazed Resistor,
		2.2M ohm, 1/2W
R803	24366684	CF, 680k ohm CF, 560 ohm
R804	24366561	CF, 560 ohm
R805	24377394	CF, 390k ohm, 1W
R806	24383390	OMF, 39 ohm, 2W
R807		OMF, 39 ohm, 2W
R808	24531100	FR, 10 ohm, 1/2W
R809	24366561	CF, 560 ohm
R810	24366561	CF, 560 ohm
R811	24322278	MF, 0.27 ohm, 1W
R812	24366470	CF. 47 ohm
R813	24366301	
R814	24366102	
R815	24366561	
R816	24366103	CF 10k ohm
	24366103	CF 1k chm
R817	24366102	CF, 10k ohm CF, 1k ohm CF, 1k ohm
R818		OME 10 abov 1/2\M
R819	24381100	
R820	24366561	
R825	24366472	
R828	24366339	CF, 3.3 ohm
R842	24366681	CF, 680 ohm
R843	24366821	CF, 820 ohm
<b> AR844</b>	24005007	Metal-Glazed Resistor,
		8.2M ohm, 1W
R848	24366392	
R860	24366561	CF, 560 ohm
R864	24382560	OMF, 56 ohm, 1W
R865	24366681	CF, 680 ohm
R866	24366471	CF, 680 ohm CF, 470 ohm
R867	24366103	CF, 10k ohm

Location	Part No.	Description
No.		
R868	24366472	CF, 4700 ohm
R870	24383822	OMF, 8200 ohm, 2W
R871	24366472	CF, 4700 ohm
R872	24569339	Cement, 3.3 ohm, 10W
R878	24531270	FR, 27 ohm, 1/2W
R879	24366472	CF, 4700 ohm
R884	24531120	FR, 12 ohm, 1/2W
<b>∆ R890</b>	24019340	PTC Thermistor, 18 ohm, 290V
R893	24366103	CF, 10k ohm
R901	24552272	OMF, 2700 ohm, 1/2W
R902	24552272	OMF, 2700 ohm, 1/2W
R903	24552272	OMF, 2700 ohm, 1/2W
R920	24000884	FR, 3 ohm, 1W
RA01	24366103	CF, 10k ohm
RA02	24366103	CF, 10k ohm
RA03	24366103	
RA05	24366103	
RA06	24366103	CF, 10k ohm CF, 4700 ohm
RA07	24366472	LF, 4700 ohm
RA09	24019001	MF, 100k ohm, ±1%, 1/4W CF, 1k ohm
RA14	24366102 24366102	CF, 1k ohm CF, 1k ohm
RA15 RA16	24366102	CF, 1k ohm
RA16 RA17	24366471	CF, 470 ohm
RA18	24366561	CF, 560 ohm
RA21	24366683	
RA24	24366225	CF, 2.2M ohm
RA25	24366333	CF, 33k ohm
RA27	24366333	CF, 33k ohm
RA28	24000242	MF, 18k ohm, ±1%, 1/4W
RA33	24366391	CF, 390 ohm
RA34	24000245	
RA35	24366471 24366273	CF, 470 ohm CF, 27k ohm
RA37 RA40	24366391	CF, 390 ohm
RA40	24366103	CF, 10k ohm
RA42	24366103	
RA46	24366103	
RA49	24366103	
RA54	24366472	CF, 10k ohm CF, 4700 ohm
RA55	24366471	CF, 470 ohm
RA56	24366471	
RA57	24366103	
RA58	24366222	CF, 2200 ohm
RA59	24366471	CF, 470 ohm
RA60	24366331 24366103	CF, 330 ohm CF, 10k ohm
RA61 RA64	24366103	CF, 10k ohm
RA65	24366103	CF. 10k ohm
RA70	24366332	CF, 10k ohm CF, 3300 ohm
RA71	24366682	CF, 6800 ohm
RA72	24366203	CF, 20k ohm
RA76	24366103	CF, 10k ohm
RA78	24366102	CF, 1k ohm
RA81	24366471	CF, 470 ohm
RA86	24366103	CF, 10k ohm
RA88	24366103	
RA90	24366103	
RA91	24366102 24366473	
RA92		
RA96 RA97	24366123 24366152	
RA97 RA98	24366154	
nad	24500134	, 100A 01

Location	0	D
No.	Part No.	Description
RA99	24366564	CF, 560k ohm
RD01	24000211	FR, 15 ohm, 1/2W MF, 2.2 ohm, 2W
RD02	24323229	MF, 2.2 ohm, 2W
RD03	24366562	
RD05	24552272	
RD06	24366182	
RD07	24366683	
RD08	24366203	CF, 20k ohm
RD09	24366152	Territoria de la companya della companya della companya de la companya della comp
RD10	24366102	
RD11	24366224	
RD12	24366822	
RD13	24366223	
RD14	24366103	
RD15	24366104	
RD16	24366752	
RD18	24366472	CF, 4700 ohm
RD19	24366272	CF, 2700 ohm
RD20	24366273	
RD50	24066927	VR, 5k ohm, 1/10W
RD51	24066925	
RE01	24366391	CF, 390 ohm CF, 100 ohm
RN01	24366101	
RN02	24552221	OMF, 220 ohm, 1/2W
RN05	24366564	
RN07	24366223	
RV01	24366151	CF, 150 ohm
RV02	24382101	OMF, 100 ohm, 1W OMF, 100 ohm, 1/2W
RV03	24552101	
RV04	24366680	
RV05	24366103	CF, 10k ohm CF, 1k ohm
RV06	24366102	CF, 1k ohm
RV08	24366560	CF, 56 ohm
RV09	24366102	CF, 1k ohm
RV10		CF, 75 ohm
RV11	24366102	
RV12	24366750	CF, 75 ONT
RV13 RV14	24366102 24366750	CF, 1k ohm CF, 75 ohm
RV15		CF, 75 ohm
RV16		CF, 6800 ohm
RV17		CF, 1k ohm
RV19	24366183	
RV22	24366182	CF 1800 ohm
RV23	24366102	CF, 1800 ohm CF, 1k ohm
RV24	24366751	CF, 750 ohm
RV25	24366102	
RV26	24366391	
RV27	24366391	CF. 390 ohm
RV28	24366391	CF, 390 ohm CF, 390 ohm
RV29	24366681	CF, 680 ohm
RV30	24366681	CF, 680 ohm
RX08	24366222	
RX09	24366222	CF, 2200 ohm
RX10	24366222	
		,
COUSE	TRANSFOR	MFRS
	22220240	Coil Pesking TREARSON!
L101 L102	23221803	Coil, Peaking, TRF4R68AJ Coil, Choke, TLN3040D
L102		Coil, RF Choke, TRF9220
L105		
L107	23238715	Coil, Peaking, TRF4120AJ Coil, Peaking, TRF4829AJ
L311	23103859	Coil (Ferrite Bead), TEM2011
L410	23289100	Coil, Peaking, TRF4100AF
C410	23203100	con, reasing, this + looks

Location No.	Part No.	Description		
L412	23221684	Coil, Choke, TLN3191D		
L414	23103859			
L421	23248116	Coil, Choke, TLN3368D		
L441	23233948	Coil, Linearity, TLN2137G		
L442	23221894	Coil, Choke, TLN3063		
L590	23289100			
L811		Coil (Ferrite Bead), TEM2011		
L821	23222694	Coil, Width, TLN2026		
L823	23221747	Coil, Choke, TRF9253D Coil, Choke, TLN3299D		
L826	23248073	Coil, Choke, TLN3299D		
L829	23103859	Coil (Ferrite Bead), TEM2011		
L866	23289229			
<b>∆ L901</b>		Coil, Degaussing, TSB-2329BR		
LA02		Coil, Peaking, TRF41R0AF		
LA03	23103859	Coil (Ferrite Bead), TEM2011		
LA04	23103859	Coil (Ferrite Bead), TEM2011 Coil (Ferrite Bead), TEM2011		
LA05	23103859	Coil (Ferrite Bead), TEM2011		
LD02		Coil, Choke, TLN3061		
LV01		Coil, Peaking, TRF4100AJ		
T103		Coil, IF, TRF1077D		
T401	23224336			
^		TLN1083		
<b>∆T461</b>	23236454	Transformer, Flyback,		
^ ====	00000000	TFB4117AR		
<b>∆ T801</b>	23211891	Line Filter, TRF3164		
<b>∆T803</b>	23217352	Transformer, Converter, TPW3368AR		
		II TTUUUMII		
SEMICONE	OUCTORS	II WJJUOMII		
SEMICONE Q101	23119441	IC, LA7910		
	23119441	IC, LA7910		
Q101	23119441 B0378560	IC, LA7910 IC, TA8427K IC, TA22611A		
Q101 Q301 Q601 Q835	23119441 B0378560	IC, LA7910 IC, TA8427K IC, TA22611A		
Q101 Q301 Q601 Q835 QN01	23119441 B0378560	IC, LA7910 IC, TA8427K IC, TA22611A		
Q101 Q301 Q601 Q835 QN01 Q105	23119441 B0378560 23119668 23318299 23319504 A6708871	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM		
Q101 Q301 Q601 Q835 QN01 Q105 Q106	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SC1815-Y		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q111	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SCA1015-Y(TE		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q112 Q302	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SA1015-YITE Transistor, 2SC1815-Y		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q111 Q112 Q302 Q340	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q112 Q302 Q340 Q402	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A678971D	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SC1569 FA-5		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q111 Q112 Q302 Q340 Q402 Q404	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A65317440 A6534053 A6317440 A6534053 A6317440 A6534053 A63872801	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SA1015-YITE Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SC1815-Y Transistor, 2SC185-S Transistor, 2SC1869 FA-5 Transistor, 2SC1869 FA-5 Transistor, 2SD2253(FA)		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q111 Q302 Q302 Q340 Q402 Q404 Q405	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6317440 A6534053 A6789710 A6872801 A6872801	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1569 FA-5 Transistor, 2SC253(FA) Transistor, 2SC1815-Y		
Q101 Q301 Q601 Q835 QN01 Q106 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A678971D A6872801 A6317440 A6534053	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1015-Y(TE		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q408	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A678971D A6872801 A6317440 A6534053 23905815	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SA1015-YITE Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE IC, UPC2412AHF		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A678971D A6872801 A6317440 A6534053 A6317440 A6534053 A6317440 A6534053 23905815 A6547250	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1859 FA-5 Transistor, 2SC2815-Y Transistor, 2SC281320		
Q101 Q301 Q601 Q835 QN01 Q106 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q480	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A678971D A6872801 A6317440 A6534053 23905815 23905815 A6547250 23904844	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1015-Y(TE Transistor, 2SC1015-Y(TE Transistor, 2SC105-Y(TE Transistor, 2SC105-Y(TE Transistor, 2SC105-Y(TE Transistor, 2SC105-Y(TE Transistor, 2SC105-Y(TE Transistor, 2SC105-Y(TE IC, UPC2412AHF Transistor, 2SA1015-Y(TE IC, MCT7809BT		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q480 Q480 Q490	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A678971D A6872801 A6317440 A6534053 23905815 23905815 A6547250 23904844	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1015-Y(TE IC, UPC2412AHF Transistor, 2SA1015-Y(TE IC, MCT7809BT		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q302 Q340 Q402 Q404 Q405 Q408 Q408 Q470 Q480 Q501 Q501	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A65317440 A6534053 A678971D A6872801 A6317440 A6534053 23905815 A6547250 23904844 23904604	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE IC, UPC2412AHF Transistor, 2SA1320 IC, MCT7809BT IC, TDA8362 IC, TDA4661		
Q101 Q301 Q601 Q835 QN01 Q106 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q480 Q501 Q501 Q504	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A65317440 A6534053 A678971D A6872801 A6317440 A6534053 23905815 23905815 23904604 23904604 23904606 A6534053	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1659 FA-5 Transistor, 2SC1569 FA-5 Transistor, 2SC1659 FA-5 Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE IC, UPC2412AHF Transistor, 2SA1320 IC, MCT7809BT IC, TDA4362 IC, TDA4661 Transitor, 2SA1015-Y(TE		
Q101 Q301 Q601 Q835 QN001 Q106 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q480 Q480 Q501 Q501 Q502	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A678971D A6872801 A6317440 23904815 23904814 23904604 23904604 23904604 23904604	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SC1869 FA-5 Transistor, 2SC1869 FA-5 Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE IC, UPC2412AHF Transistor, 2SA1320 IC, TDA4681 Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SA619		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q408 Q470 Q501 Q501 Q501 Q502	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A678971D A6872801 A6317440 A6534053 23905815 A6547250 23904844 23904604 23904604 A6534053 A6363200 A6534053	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC21815-Y Transistor, 2SC31815-Y Transistor, 2SC3181		
Q101 Q301 Q601 Q835 QN01 Q106 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q480 Q501 Q504 Q505 Q506 Q506	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A65317440 A6534053 A678971D A6872801 A6317440 A6534053 23905815 23905815 23904604 23904604 23904606 A6534053 A6363200 A6534053	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1659 FA-5 Transistor, 2SC1569 FA-5 Transistor, 2SC1659 FA-5 Transistor, 2SC1815-Y Transistor, 2SC3619 Transistor, 2SC3619 Transistor, 2SC3619 Transistor, 2SC3619		
Q101 Q301 Q601 Q835 QN01 Q106 Q106 Q110 Q111 Q112 Q302 Q402 Q404 Q405 Q406 Q408 Q470 Q480 Q501 Q501 Q505 Q506 Q506 Q506 Q506	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A6317440 A6534053 23905815 A6317440 A6534053 23904844 23904604 23904604 23904604 23904604 23904604 A6534053 A6363200 A6534053 A6363200 A6534053	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1569 FA-5 Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SC3619 Transistor, 2SC3619 Transistor, 2SC3619 Transistor, 2SC3619 Transistor, 2SC31615-Y(TE		
Q101 Q301 Q601 Q835 QN01 Q105 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q408 Q470 Q501 Q501 Q501 Q501 Q505 Q506 Q506 Q507 Q508	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A678871D A6872801 A6317440 A6534053 23905815 A6547250 23904604 23904604 23904604 23904604 23904604 A6534053 A6363200 A6534053 A6363200	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SC3619		
Q101 Q301 Q601 Q835 QN01 Q106 Q106 Q110 Q111 Q111 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q480 Q501 Q504 Q505 Q506 Q507 Q508 Q509 Q510	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A65317440 A6534053 A678971D A6872801 A6317440 A6534053 23905815 A6547250 23904804 A6534053 A6534053 A6534053 A6363200 A6534053 A6363200 A6534053 A6363200 A6534053	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1659 FA-5 Transistor, 2SC1659 FA-5 Transistor, 2SC1815-Y Transistor, 2SC1915-Y Transistor, 2SC1015-Y Transistor, 2SC3619		
Q101 Q301 Q801 Q835 QN01 Q106 Q110 Q111 Q111 Q302 Q340 Q402 Q404 Q406 Q408 Q470 Q480 Q470 Q501 Q501 Q505 Q506 Q506 Q508 Q508 Q509 Q508 Q509 Q509 Q511	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6534053 A6317440 A6534053 A678971D A6872801 A6317440 A654053 23904814 23904604 23904 2	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE IC, UPC2412AHF Transistor, 2SA1320 IC, TDA4681 Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SC3619 Transistor, 2SC41015-Y(TE Transistor, 2SC41015-Y(TE Transistor, 2SC41015-Y(TE Transistor, 2SC41015-Y(TE Transistor, 2SC2482(C) Transistor, 2PA1015-Y		
Q101 Q301 Q301 Q835 QN01 Q105 Q106 Q110 Q111 Q112 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q480 Q470 Q501 Q502 Q504 Q505 Q506 Q507 Q508 Q509 Q510 Q501	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A6317440 A6534053 23905815 A6547250 23904604 23904 239	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SA1015-Y(TE Transistor, 2SA1015-Y(TE Transistor, 2SC3619 Transistor, 2SC3819 Transistor, 2SC3818-A(TE		
Q101 Q301 Q801 Q835 QN01 Q106 Q110 Q111 Q111 Q302 Q340 Q402 Q404 Q406 Q408 Q470 Q480 Q470 Q501 Q501 Q505 Q506 Q506 Q508 Q508 Q509 Q508 Q509 Q509 Q511	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A65317440 A6534053 A678971D A6872801 A6317440 A6534053 23905815 A6347250 23904804 23904604 A6534053 A6363200 A6534053 A6363200 A6534053 A6363200 A6534053 A6363200 A6534053	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC1689 FA-5 Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1815-Y Transistor, 2SC1015-Y(TE Transistor, 2SC1015-Y(TE Transistor, 2SC1015-Y(TE Transistor, 2SC3619 Transistor, 2SC378-A(TE Transistor, 2SC378-A(TE		
Q101 Q301 Q835 QN01 Q106 Q110 Q110 Q111 Q1112 Q302 Q402 Q404 Q406 Q408 Q470 Q480 Q490 Q501 Q501 Q505 Q506 Q506 Q506 Q507 Q508 Q509 Q511 Q501 Q501 Q501 Q501 Q501 Q501 Q506 Q506 Q506 Q506 Q506 Q506 Q506 Q506	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A678971D A6872801 A6317440 A6534053 23904815 A6547250 23904804 23904604 23904	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC388ATM Transistor, 2SC1815-Y Transistor, 2SC3619 Transistor, 2SC2878-A(TE Transistor, 2SC2878-A(TE Transistor, 2SCA1015-Y(TE Transistor, 2SCA1015-Y(TE Transistor, 2SCA1015-Y(TE Transistor, 2SCA1015-Y(TE Transistor, RN2004		
Q101 Q301 Q601 Q835 QN01 Q106 Q106 Q110 Q111 Q111 Q302 Q340 Q402 Q404 Q405 Q406 Q408 Q470 Q480 Q501 Q505 Q506 Q507 Q508 Q507 Q508 Q509 Q510 Q511 Q603 Q604	23119441 B0378560 23119668 23318299 23319504 A6708871 A6317440 A6317440 A6534053 A6317440 A6534053 A678971D A6872801 A6317440 A6534053 23904815 A6547250 23904804 23904604 23904	IC, LA7910 IC, TA8427K IC, TDA2611A IC, L78MR05 IC, MM1031XS Transistor, 2SC1815-Y Transistor, 2SC28619 Transistor, 2SC2819 Transistor, 2SC2878-A(TE Transistor, 2SC2878-A(TE Transistor, 2SC21815-Y Transisto		

No. Part No. Description    No.   Part No. Description	
G801         23314146         ICISTR), STRS8041           G802         A6534145         Transistor, 2SA1020-Y(C)           G803         A6333346         Transistor, 2SC1815-Y           G804         A6317440         Transistor, 2SC1815-Y           G805         A6317440         Transistor, 2SC1815-Y           G806         A6317440         Transistor, 2SC1815-Y           G828         A6317440         Transistor, 2SC1815-Y           G836         23114530         Transistor, 2SC81815-Y           G836         23114530         Transistor, 2SC1815-Y           G870         A6333346         Transistor, 2SC2655-Y(C)           G871         A6333346         Transistor, 2SC2655-Y(C)           G871         A6333346         Transistor, 2SC2655-Y(C)           G871         A6317440         Transistor, 2SC1815-Y           GA01         23905826         IC, SAA52902P/053           GA02         23914706         IC, NM24C02EN           GA03         23114528         Transistor, 2SC1815-Y           GA03         23114528         Transistor, 2SC1815-Y           GA04         A6317440         Transistor, 2SC1815-Y           GA25         A6317440         Transistor, 2SC1815-Y           GD04	
Q802 A6534145 Transistor, 2SA1020-Y(C) Q803 A633346 Transistor, 2SC2655-Y(C) Q806 A6317440 Transistor, 2SC1815-Y Q806 A6317440 Transistor, 2SC1815-Y Q828 A6317440 Transistor, 2SC1815-Y Q831 A6317440 Transistor, 2SC1815-Y Q836 A6317440 Transistor, 2SC1815-Y Q836 A6317440 Transistor, 2SC1815-Y Q836 A6333346 Transistor, 2SC2855-Y(C) Q870 A6333346 Transistor, 2SC2655-Y(C) Q871 A6317440 Transistor, 2SC2655-Y(C) Q871 A6317440 Transistor, 2SC2655-Y(C) Q871 A6317440 Transistor, 2SC2815-Y Q881 A6317440 Transistor, 2SC1815-Y Q881 A6317440	
0803         A6333346         Transistor, 2SC1815-Y           0806         A6317440         Transistor, 2SC1815-Y           0806         A6317440         Transistor, 2SC1815-Y           0806         A6317440         Transistor, 2SC1815-Y           0828         A6843108         Photo Coupler, TLP621(GR           0828         A6317440         Transistor, 2SC1815-Y           0831         A6317440         Transistor, 2SC1815-Y           0836         23114530         Transistor, 2SC1815-Y           0861         A6333346         Transistor, 2SC655-Y(C)           0871         A6317440         Transistor, 2SC1815-Y           0A01         23905826         IC, SAA52902P/053           0A02         23904706         IC, NM24C02EN           0A03         23114528         Transistor, 2SC1815-Y           0A04         A6317440         Transistor, 2SC1815-Y           0A08         A6317440         Transistor, 2SC1815-Y           0A04         A6317440         Transistor, 2SC1815-Y           0A04         A6347440         Transistor, 2SC1815-Y           0A05         A6534053         Transistor, 2SC1815-Y           0A06         A6347440         Transistor, 2SC1815-Y           0A01	
O804         A6317440         Transistor, 2SC1815-Y           O805         A6317440         Transistor, 2SC1815-Y           O806         A6317440         Transistor, 2SC1815-Y           A0826         A8643108         Photo Coupler, TLP621GR           O831         A6317440         Transistor, 2SC1815-Y           O836         23114530         Transistor, 2SC81815-Y           O870         A6333346         Transistor, 2SC2655-Y(C)           O871         A6317440         Transistor, 2SC2655-Y(C)           O871         A6317440         Transistor, 2SC2655-Y(C)           O871         A6317440         Transistor, 2SC2655-Y(C)           OA01         23905826         IC, SAAS2902P/053           OA02         23904706         IC, NM24C02EN           OA03         23114528         Transistor, 2SC1815-Y           OA04         A6317440         Transistor, 2SC1815-Y           OA05         A6317440         Transistor, 2SC1815-Y           OA06         A6317440         Transistor, 2SC1815-Y           OD04         A634053         Transistor, 2SC1815-Y           OD04         A634053         Transistor, 2SC1815-Y           OD04         A634063         Transistor, 2SC1815-Y           OV01 </td <td></td>	
Q805         A6317440         Transistor, 2SC1815-Y           Q806         A6317440         Transistor, 2SC1815-Y           Q828         A6317440         Transistor, 2SC1815-Y           Q831         A6317440         Transistor, 2SC1815-Y           Q836         A6333346         Transistor, 2SC1815-Y           Q830         Q861         A6333346         Transistor, 2SC2655-Y(C)           Q871         A6337440         Transistor, 2SC2655-Y(C)           Q871         A6337440         Transistor, 2SC2655-Y(C)           Q871         A6337440         Transistor, 2SC1815-Y           QA01         23906826         IC, NM24C02EN           QA02         23904706         IC, NM24C02EN           QA03         23114528         Transistor, 2SC1815-Y           QA04         A6317440         Transistor, 2SC1815-Y           QA05         A6317440         Transistor, 2SC1815-Y           QA10         A6337440         Transistor, 2SC1815-Y           QD01         A6625365         Transistor, 2SC1815-Y           QD02         23314794         Transistor, 2SC1815-Y           QD04         A634206         Transistor, 2SC1815-Y           QV03         A6534053         Transistor, 2SC1815-Y	
O806         A6317440         Transistor, ZSC1815-Y           ∆ 0826         A8643108         Photo Coupler, TLP621(GR           0828         A6317440         Transistor, ZSC1815-Y           0831         A6317440         Transistor, ZSC1815-Y           0836         A6333346         Transistor, ZSC1815-Y           0870         A6333346         Transistor, ZSC2655-Y(C)           0871         A6317440         Transistor, ZSC1815-Y           0A01         23908526         IC, SAAES902P(063)           0A02         23904706         IC, NM24C02EN           0A03         23114528         Transistor, ZSC1815-Y           0A04         A6317440         Transistor, ZSC1815-Y           0A10         A6317440         Transistor, ZSC1815-Y           0A1740	
Δ OB26         A8643108         Photo Coupler, TLP621(GR           OB28         A6317440         Transistor, ZSC1815-Y           OB36         A6317440         Transistor, ZSC1815-Y           OB36         23114530         Transistor, ZSC2655-Y(C)           OB70         A6333346         Transistor, ZSC2655-Y(C)           OB71         A6317440         Transistor, ZSC2655-Y(C)           OB71         A6317440         Transistor, ZSC1815-Y           OA02         23904706         IC, NM24C02EN           OA03         23114528         Transistor, ZSC1815-Y           OA04         A6317440         Transistor, ZSC1815-Y           OA05         A6317440         Transistor, ZSC1815-Y           OA06         A6317440         Transistor, ZSC1815-Y           OA07         A6634053         Transistor, ZSC1815-Y           OD01         A6534053         Transistor, ZSC1815-Y           OD04         A634206         Transistor, ZSC1815-Y           OV01         A6317440         Transistor, ZSC1815-Y           OV03         A6534053         Transistor, ZSC1815-Y           OV04         A6317440         Transistor, ZSC1815-Y           OV05         A6317440         Transistor, ZSC1815-Y           OV	
Q828         A6317440         Transistor, 2SC1815-Y           Q831         A6317440         Transistor, 2SC1815-Y           Q836         23114530         Transistor, 2SC2655-Y(C)           Q870         A6333346         Transistor, 2SC2655-Y(C)           Q871         A6317440         Transistor, 2SC2655-Y(C)           Q871         A6317440         Transistor, 2SC1815-Y           Q802         23904706         IC, NM24C02EN           Q803         23114528         Transistor, 2SC1815-Y           Q804         A6317440         Transistor, 2SC1815-Y           Q805         A6317440         Transistor, 2SC1815-Y           Q801         A6317440         Transistor, 2SC1815-Y           Q802         23314794         Transistor, 2SC1815-Y           Q801         A6317440         Transistor, 2SC1815-Y           Q802         A6317440         Transistor, 2SC1815-Y           Q803         A6534053         Transistor, 2SC1815-Y           Q804         A6317440         Transistor, 2SC1815-Y           Q805         Transistor, 2SC1815-Y           Q803         A6534053         Transistor, 2SC1815-Y           Q804         A6317440         Transistor, 2SC1815-Y           Q805         A6534053 <td></td>	
0831         A6317440         Transistor, 2SC1815-Y           0836         23114530         Transistor, 2SA933S-Q           0861         A6333346         Transistor, 2SC2655-Y(C)           0870         A6333346         Transistor, 2SC2655-Y(C)           0871         A6317440         Transistor, 2SC2655-Y(C)           0A02         23904706         IC, SAA52902P/053           0A02         23904706         IC, NM24C02EN           0A03         23114528         Transistor, 2SC1815-Y           0A08         A6317440         Transistor, 2SC1815-Y           0A10         A6317440         Transistor, 2SC1815-Y           0A25         A6317440         Transistor, 2SC1815-Y           0A10         A6625365         Transistor, 2SC1815-Y           0A01         A6625365         Transistor, 2SC1815-Y           0A02         A6534053         Transistor, 2SC1815-Y           0A03         A6534053         Transistor, 2SC1815-Y           0A04         A6342206         Transistor, 2SC1815-Y           0A04         A6342206         Transistor, 2SC1815-Y           0A05         A6534053         Transistor, 2SC1815-Y           0A06         A6317440         Transistor, 2SC1815-Y           0A07	-LF
Q836         23114530         Transistor, 2SA933S-Q           Q861         A6333346         Transistor, 2SC2655-Y(C)           Q871         A6333346         Transistor, 2SC2655-Y(C)           Q871         A6317440         Transistor, 2SC2655-Y(C)           Q871         A6317440         Transistor, 2SC1815-Y           QA03         2314528         Transistor, 2SC1815-Y           QA04         A6317440         Transistor, 2SC1815-Y           QA10         A6317440         Transistor, 2SC1815-Y           QA10         A6317440         Transistor, 2SC1815-Y           QA25         A6317440         Transistor, 2SC1815-Y           QD01         A6632685         Transistor, 2SC1815-Y           QD02         23314794         Transistor, 2SC1815-Y           QD03         A6534053         Transistor, 2SC1815-Y           QM01         23904608         IC, TDA8395           QV01         A6317440         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A603053         Transistor, 2SC1815-Y           QV07         A603053         Transistor, 2SC1815-Y           QV11         23114528         Transistor, 2SC1740S-Q           QV11	
0861         A6333346         Transistor, 2SC2655-Y(C)           0870         A6333346         Transistor, 2SC2655-Y(C)           0871         A6317440         Transistor, 2SC1815-Y           0A01         23906706         IC, SAA5290ZP/053           0A02         23904706         IC, NM24C0ZEN           0A04         A6317440         Transistor, 2SC1815-Y           0A08         A6317440         Transistor, 2SC1815-Y           0A10         A6317440         Transistor, 2SC1815-Y           0A02         A6317440         Transistor, 2SC1815-Y           0A03         A6317440         Transistor, 2SC1815-Y           0A04         A6317440         Transistor, 2SC1815-Y           0A05         A6317440         Transistor, 2SC1815-Y           0A02         23314794         Transistor, 2SC1815-Y           0B02         A634206         Transistor, 2SC1815-Y           0A03         A6534053         Transistor, 2SC1815-Y           0A05         A6534053         Transistor, 2SC1815-Y           0A05         A6317440         Transistor, 2SC1815-Y           0A05         A6317440         Transistor, 2SC1815-Y           0A05         A6534053         Transistor, 2SC1815-Y           0A07	
Q870         A6333346         Transistor, 2SC1815-Y           Q871         A6317440         Transistor, 2SC1815-Y           QA01         23905826         IC, SAA52902P/053           QA02         23904706         IC, NM24C02EN           QA03         23114528         Transistor, 2SC1740S-Q           QA08         A6317440         Transistor, 2SC1815-Y           QA01         A6317440         Transistor, 2SC1815-Y           QA25         A6317440         Transistor, 2SC1815-Y           QD01         A6625365         Transistor, 2SC1815-Y           QD02         23314794         Transistor, 2SC1815-Y           QD03         A6534053         Transistor, 2SC1815-Y           QM01         A6342206         Transistor, 2SC1815-Y           QM01         23904608         IC, TDA8396           QV01         A6317440         Transistor, 2SC1815-Y           QV03         A6534053         Transistor, 2SC1815-Y           QV04         A6317440         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A6534053         Transistor, 2SC1815-Y           QV11         23114528         Transistor, 2SC1740S-Q           QV11         2311452	
OB71         A6317440         Transistor, 2SC1815-Y           QA01         23905826         IC, SAA5290ZP/053           QA02         23904706         IC, SM24C02EN           QA04         A6317440         Transistor, 2SC1815-Y           QA08         A6317440         Transistor, 2SC1815-Y           QA10         A6317440         Transistor, 2SC1815-Y           QA25         A6317440         Transistor, 2SC1815-Y           QD01         A6625365         Transistor, 2SC1815-Y           QD02         23314794         Transistor, 2SC888-O(BS)           QD02         23314794         Transistor, 2SC888-O(BS)           QD03         A6534053         Transistor, 2SC1815-Y           QM01         23904608         IC, TDA8395           QV01         A6317440         Transistor, 2SC1815-Y           QV03         A6534053         Transistor, 2SC1815-Y           QV04         A6317440         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A6034053         Transistor, 2SC1815-Y           QV11         23114528         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12	
QA01         23905826         IC, SAA5290ZP/053           QA02         23904706         IC, NM24C0ZEN           QA04         A6317440         Transistor, 2SC1815-Y           QA08         A6317440         Transistor, 2SC1815-Y           QA10         A6317440         Transistor, 2SC1815-Y           QA25         A6317440         Transistor, 2SC1815-Y           QD01         A6625365         Transistor, 2SC8888-QIS)           QD02         23314794         Transistor, 2SC8888-QIS)           QD03         A6534053         Transistor, 2SC1815-Y           QD04         A6342206         Transistor, 2SC1815-Y           QV03         A6534053         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A602030         Transistor, 2SC1815-Y           QV07         A602030         Transistor, 2SC1815-Y           QV07         A602030         Transistor, 2SC1815-Y           QV12         23114528         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           QV11	
QA02         23904706         IC, NM24C02EN           QA03         23114528         Transistor, 2SC1740S-Q           QA04         A6317440         Transistor, 2SC1815-Y           QA08         A6317440         Transistor, 2SC1815-Y           QA10         A6317440         Transistor, 2SC1815-Y           QA25         A6317440         Transistor, 2SC1815-Y           QD01         A6625365         Transistor, 2SC8688-Q(BS)           QD02         23314794         Transistor, 2PC1815-Y           QD04         A6342206         Transistor, 2SC1815-Y           QM01         23904608         IC, TDA8395           QV01         A6534053         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A602030         Transistor, 2SC1815-Y           QV07         A602030         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           QV12         23115878         Diode, 1N4148           D109         23115879         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041	
QA03         23114528         Transistor, 2SC1740S-Q           QA04         A6317440         Transistor, 2SC1815-Y           QA08         A6317440         Transistor, 2SC1815-Y           QA10         A6317440         Transistor, 2SC1815-Y           QA25         A6317440         Transistor, 2SC1815-Y           QD01         A6625365         Transistor, 2SC1815-Y           QD02         23314794         Transistor, 2PC1815Y           QD03         A6534053         Transistor, 2SC1815-Y           QM01         23904608         IC, TDA8395           QV01         A6317440         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A6034053         Transistor, 2SC1815-Y           QV07         A6034053         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           QV12         23115587         Diode, 1N4148           D109         23115587         Diode, 2ener, μPC574J, (L           D109         23115599         Diode, 1N4148           D201         2311	
QA04         A6317440         Transistor, 2SC1815-Y           QA08         A6317440         Transistor, 2SC1815-Y           QA10         A6317440         Transistor, 2SC1815-Y           QA25         A6317440         Transistor, 2SC1815-Y           QD01         A6625365         Transistor, 2SC1815-Y           QD03         A6534053         Transistor, 2SC1815-Y           QD04         A634206         Transistor, 2SC2878-A(TE           QM01         23904608         IC, TDA8395           QV01         A6317440         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A602030         Transistor, 2SC1815-Y           QV07         A602030         Transistor, 2SC1815-Y           QV07         A602030         Transistor, 2SC1815-Y           QV10         23114528         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           QV11         23115579         Diode, 1N4148           D108         23115579         Diode, 1N4148           D109         23115599 </td <td></td>	
QA08 A6317440 Transistor, 2SC1815-Y QA25 A6317440 Transistor, 2SC1815-Y QA25 A6317440 Transistor, 2SC1815-Y QA25 A6317440 Transistor, 2SC1815-Y QD01 A6625365 Transistor, 2SC8688-O(BS) QD02 23314794 Transistor, 2PC1815Y QD04 A6342206 Transistor, 2PC1815Y QD04 A6342206 Transistor, 2SC2878-A(TE QD04 A6342206 Transistor, 2SC1815-Y QD05 A6317440 Transistor, 2SC1815-Y QD05 A6317440 Transistor, 2SC1815-Y QD07 A6002030 QD07 Transistor, 2SC1740S-Q QD11 23114528 Transistor, 2SC1740S-Q QD11 23114528 Transistor, 2SC1740S-Q QD11 23115599 Diode, 1N4148 QD03 23118599 Diode, 1N4148 QD03 23118599 Diode, 1N4148 QD03 23118479 Diode, BYD33J QD04 23116879 Diode, BYD33J QD04 23116858 Diode, Cener, MTZJ3.6A QD06 23118679 Diode, SC215 QD06 22318688 Diode, Zener, MTZJ3.6A QD06 23118679 Diode, BYD33J QD06 23118679 Diode, PWD33J QD06 23118679 Diode, PWD33J QD06 23118679 Diode, PWD33J QD06 23118679 Diode, PWD33J QD06 23118052 Diode, RU4Z	
QA10         A6317440         Transistor, ZSC1815-Y           QA25         A6317440         Transistor, ZSC1815-Y           QD01         A6625365         Transistor, ZSC1815-Y           QD02         23314794         Transistor, ZPC1815Y           QD03         A6534053         Transistor, ZSC2878-A(TE           QM01         23904608         IC, TDA8395           QV01         A6317440         Transistor, ZSC1815-Y           QV05         A6317440         Transistor, ZSC1815-Y           QV07         A6002030         Transistor, ZSC1815-Y           QV10         23114528         Transistor, ZSC1740S-Q           QV11         23114528         Transistor, ZSC1740S-Q           QV12         23114528         Transistor, ZSC1740S-Q           QV12         23114528         Transistor, ZSC1740S-Q           QV12         23115599         Diode, IN4148           D109         23115599         Diode, Zener, µPC574J, (L           D109         23115599         Diode, IN4148           D201         23115599         Diode, IN4148           D202         A7150041         Diode, IS5104           D301         23118479         Diode, BYD3J           D302         23118479         Di	
OA25         A6317440         Transistor, 2SC1815-Y           QD01         A6625365         Transistor, 2SC8688-Q(BS)           QD02         23314794         Transistor, 2PC1815Y           QD03         A6534053         Transistor, 2SC3978-A(TE           QM01         23904608         IC, TDA8395           QV01         A6317440         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A6002030         Transistor, 2SC1815-Y           QV07         A6002030         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           QV11         2311559         Diode, 1N4148           D108         23115599         Diode, 2ener, µPC574J, (L           D109         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1SS104           D203         23115599         Diode, 1N4148           D301         23116479         Diode, BYD3J           D302         23118479         Diode, BYD3J           D312         23316794         Diode, ERB12-02 </td <td></td>	
QD01         A6625365         Transistor, 2SB688-Q(BS)           QD02         23314794         Transistor, 2PC1815Y           QD03         A6534053         Transistor, 2SC1815-Y           QD04         A6342206         Transistor, 2SC2878-A(TE           QW01         A6534053         Transistor, 2SC1815-Y           QW05         A6534053         Transistor, 2SC1815-Y           QW07         A6002030         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           D101         23115599         Diode, 1N4148           D109         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1SS104           D203         23118599         Diode, 1N4148           D301         23118479         Diode, BYD33J           D302         23118479         Diode, BYD33J           D312         23118822         Diode, ERB12-02           D320         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D403         23316688         Diode, BYD33J	
OD02         23314794         Transistor, 2PC1815Y           QD03         A6534053         Transistor, 2SA1015-Y(TE           QD04         A65342206         Transistor, 2SC2878-A(TE           QM01         23904608         IC, TDA8395           QV01         A6531450         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A6002030         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           QV12         23115599         Diode, 1N4148           D108         23115878         Diode, 2Pener, μPC574J, (L           D109         23115599         Diode, 1N4148           D101         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1S5104           D203         23118479         Dlode, BYD33J           D312         23318794         Diode, BYD33J           D320         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D403         23316688         Diode, ERB12-02 </td <td></td>	
OD03         A6534953         Transistor, ZSA1015-YTE           QD04         A6342206         Transistor, ZSC2878-A(TE           QM01         A6317440         Transistor, ZSC1815-Y           QV03         A6534053         Transistor, ZSC1815-Y           QV07         A6002030         Transistor, ZSC1815-Y           QV10         23114528         Transistor, ZSC1740S-Q           QV11         23114528         Transistor, ZSC1740S-Q           QV12         23114528         Transistor, ZSC1740S-Q           D101         23115599         Diode, Zener, µPC674J, (L           D108         23115599         Diode, 1N4148           D111         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         23115599         Diode, 1N4148           D203         23118599         Diode, 1N4148           D301         23118479         Diode, BYD3J           D302         23118479         Diode, BYD3J           D312         23116794         Diode, ERB12-02           D320         23118822         Diode, ERB12-02           D321         23116658         Diode, Zener, MTZJ3.6A           D403         23316688         Diode, Zener, MTZJ	
QD04         A6342206         Transistor, 2SC2878-A(TE           QM01         23904608         IC, TDA8395           QV03         A6534053         Transistor, 2SC1815-Y           QV05         A6317440         Transistor, 2SC1815-Y           QV07         A602030         Transistor, 2SC171203-Q           QV10         23114528         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           D101         23115599         Diode, 1N4148           D108         23115878         Diode, 2ener, µPC574J, (L           D11         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1N4148           D203         23115599         Diode, 1N4148           D301         23118479         Diode, BYD33J           D302         23118479         Diode, BYD33J           D312         23118822         Diode, ERB12-02           D320         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D401         23316679         Diode, Zener, MTZJ3.6A	
QM01         23904608         IC, TDA8395           QV01         A65317440         Transistor, 2SC1815-Y           QV05         A6534053         Transistor, 2SC1815-Y           QV07         A6002030         Transistor, 2SC1815-Y           QV10         23114528         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           D101         23115589         Diode, 1N4148           D109         23115599         Diode, 1N4148           D11         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1S5104           D203         23118599         Diode, 18Y148           D301         23118599         Diode, 18Y13J           D302         23118479         Dlode, BYD3J           D312         233186794         Diode, ERB12-02           D320         233118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D403         23316688         Diode, ERB12-02           D403         23316688         Diode, Zener, MTZJ3.6A	
QV01         A6317440         Transistor, 2SC1815-Y           QV03         A6534053         Transistor, 2SA1015-Y(TE           QV07         A6002030         Transistor, 2SC1815-Y           QV10         23114528         Transistor, 2SC1740S-Q           QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           D101         23115599         Diode, 1N4148           D108         23115599         Diode, 1N4148           D111         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         23115599         Diode, 1N4148           D203         23115599         Diode, 1N4148           D301         23118479         Diode, 8YD33J           D302         23118479         Diode, 8YD33J           D312         23316794         Diode, ERB12-02           D320         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D401         23316688         Diode, Zener, MTZJ3.6A           D403         23316680         Diode, Zener, MTZJ9.1C           D408         23118052         Diode, BYD33J <td></td>	
QV03 A6534053 Transistor, 2SA1015-Y(TE QV05 A6317440 Transistor, 2SC1815-Y A6002030 Transistor, RY203 QV10 23114528 Transistor, 2SC1740S-Q QV11 23114528 Transistor, 2SC1740S-Q QV12 23114528 Transistor, 2SC1740S-Q D101 23115599 Diode, 1N4148 D109 23115599 Diode, 1N4148 D201 23115599 Diode, 1N4148 D201 23115599 Diode, 1N4148 D202 A7150041 Diode, 1SS104 D203 23115599 Diode, 1N4148 D202 23115599 Diode, 1N4148 D202 23115599 Diode, 1N4148 D202 23115599 Diode, 1N4148 D202 23118599 Diode, 1N4148 D203 23115599 Diode, SVD3J D203 23118479 Diode, SVD3J D203 23118479 Diode, SC570A D320 23118422 Diode, ERB12-02 D340 23316658 Diode, Zener, MTZJ3.6A D401 23316792 Diode, SC215 D403 23316688 Diode, Zener, MTZJ3.1C D408 23118052 Diode, BVD3J D408	
QV05 A6317440 Transistor, 2SC1815-Y QV07 A6002030 Transistor, RN1203 QV10 23114528 Transistor, 2SC1740S-Q QV11 23114528 Transistor, 2SC1740S-Q QV12 23114528 Transistor, 2SC1740S-Q D101 23115599 Diode, 1N4148 D108 23115599 Diode, 1N4148 D111 23115599 Diode, 1N4148 D201 23115599 Diode, 1N4148 D201 23115599 Diode, 1N4148 D202 A7150041 Diode, 1SS104 Diode, 1SS104 Diode, 1SS104 Diode, 1SS104 Diode, 1N4148 D301 23118599 Diode, 1N4148 D301 23118599 Diode, 1N4148 D301 23118479 Diode, BYD33J D312 23316794 Diode, BYD33J D312 23316794 Diode, SC570A Diode, ERB12-02 D340 23316658 Diode, Zener, MTZJ3.6A D401 23316792 Diode, Zener, MTZJ3.6A D403 23316688 Diode, Zener, MTZJ3.6A D406 23118479 Diode, BYD33J D408 23118052 Diode, BYD33J D408	
QV07 A6002030 Transistor, RN1203 QV10 23114528 Transistor, ZSC1740S-Q QV11 23114528 Transistor, ZSC1740S-Q QV12 23114528 Transistor, 2SC1740S-Q DV12 23114528 Transistor, 2SC1740S-Q DV12 23115599 Diode, 1N4148 D109 23115599 Diode, 1N4148 D111 23115599 Diode, 1N4148 D201 23115599 Diode, 1N4148 D202 23115599 Diode, 1N4148 D203 23115599 Diode, 1N4148 D301 23118479 Diode, BYD33J D302 23118479 Diode, BYD33J D312 23316794 Diode, BYD33J D312 23118822 Diode, ERB12-02 D340 23316658 Diode, Zener, MTZJ3.6A D401 23316792 Diode, Zener, MTZJ3.6A D403 23316688 Diode, Zener, MTZJ9.1C D408 23118052 Diode, BYD33J D408 23118052 Diode, BYD33J	
QV10 23114528 Transistor, 2SC1740S-Q QV11 23114528 Transistor, 2SC1740S-Q QV12 23114528 Transistor, 2SC1740S-Q D101 23115599 Diode, 1N4148 D108 23115599 Diode, 1N4148 D101 23115599 Diode, 1N4148 D201 23115599 Diode, 1N4148 D202 A7150041 Diode, 1SS104 D203 23115599 Diode, 1SS104 D203 23115599 Diode, 1SS104 D203 23115599 Diode, 1SS104 D203 23115599 Diode, 1SS104 D203 23116879 Diode, BYD33J D302 23118479 Diode, BYD33J D312 23316794 Diode, BYD33J D320 23118822 Diode, ERB12-02 D340 23316658 Diode, Zener, MTZJ3.6A D401 23316792 Diode, Zener, MTZJ3.6A D403 23316688 Diode, Zener, MTZJ3.1C D408 23118052 Diode, BYD33J D408 23118052 Diode, BYD33J	
QV11         23114528         Transistor, 2SC1740S-Q           QV12         23114528         Transistor, 2SC1740S-Q           D101         23115599         Diode, 1N4148           D108         23115878         Diode, 1N4148           D109         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1S5104           D203         23115599         Diode, 1N4148           D301         23118579         Diode, 1N4148           D301         23118479         Dlode, BYD33J           D312         233186794         Dlode, SC570A           D320         23118822         Diode, ERB12-02           D341         23316585         Diode, Zener, MTZJ3.6A           D401         23316580         Diode, Zener, MTZJ3.6A           D403         23316688         Diode, Zener, MTZJ9.1C           D406         23118479         Diode, BYD33J           D408         23118052         Diode, BYD33J	
OV12         23114528         Transistor, 2SC1740S-Q           D101         23115599         Diode, 1N4148           D108         23115599         Diode, 2 Pener, μPC574J, (L           D109         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1SS104           D203         23115599         Diode, 1SY148           D301         23118479         Diode, 8YD33J           D302         23118479         Diode, 8YD33J           D312         23316794         Diode, SC570A           D320         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D401         23316679         Diode, Zener, MTZJ3.6A           D403         23316688         Diode, Zener, MTZJ9.1C           D406         23118479         Diode, BYD33J           D408         23118052         Diode, BYD33J	
D101   23115599   Diode, 1N4148   D108   23115878   Diode, 2ener, μPC574J, (L) D109   23115599   Diode, 1N4148   D111   23115599   Diode, 1N4148   D201   23115599   Diode, 1N4148   D202   27150041   Diode, 1S\$104   D203   23115599   Diode, 1N4148   D301   23116479   Diode, BYD33J   D302   23118479   Diode, BYD33J   D312   23316794   Diode, ERB12-02   D320   23118822   Diode, ERB12-02   D340   23316588   Diode, Zener, MTZJ3.6A   D401   23316792   Diode, Zener, MTZJ3.1C   D408   23118052   Diode, BYD33J   D408   23118052   Diode, RU4Z	
D109         23115599         Diode, 1N4148           D111         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1SS104           D203         23115599         Diode, 1N4148           D301         23118479         Dlode, BYD33J           D302         23118479         Dlode, BYD33J           D320         23118822         Diode, ERB12-02           D321         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D401         23316688         Diode, Zener, MTZJ3.6A           D403         23316688         Diode, Zener, MTZJ9.1C           D406         23118479         Diode, BYD33J           D408         23118052         Diode, RU4Z	
D109         23115599         Diode, 1N4148           D111         23115599         Diode, 1N4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1SS104           D203         23115479         Diode, 1N4148           D301         23118479         Dlode, BYD33J           D302         23118479         Dlode, BYD33J           D320         23118822         Diode, ERB12-02           D321         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D401         23316688         Diode, Zener, MTZJ3.6A           D403         23316688         Diode, Zener, MTZJ9.1C           D406         23118479         Diode, BYD33J           D408         23118052         Diode, RU4Z	)
D111         23115599         Diode, IN4148           D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1SS104           D203         23115599         Diode, BYD3J           D301         23118479         Dlode, BYD3J           D312         23316794         Dlode, SC570A           D320         23118822         Diode, ERB12-02           D340         23316658         Diode, ERB12-02           D340         23316658         Diode, SC215           D403         23316688         Diode, Zener, MTZJ9.1C           D406         23118879         Diode, BYD33J           D408         23118052         Diode, RU4Z	•
D201         23115599         Diode, 1N4148           D202         A7150041         Diode, 1SS104           D203         23115599         Diode, 1N4148           D301         23118479         Diode, BYD33J           D302         23118479         Diode, BYD33J           D312         23316794         Diode, SC570A           D320         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D401         23316792         Diode, SC215           D403         23316688         Diode, Zener, MTZJ9.1C           D406         23118479         Diode, BYD33J           D408         23118052         Diode, RU4Z	
D202 A7150041 Diode, 1SS104 D203 23115599 Diode, 1N4148 D301 23118479 Diode, BYD33J D302 23118479 Diode, BYD33J D312 23316794 Diode, SC570A D320 23118822 Diode, ERB12-02 D321 23118822 Diode, ERB12-02 D340 23316658 Diode, Zener, MTZJ3.6A D401 23316792 Diode, SC215 D403 23316688 Diode, Zener, MTZJ9.1C D406 23118479 Diode, BYD33J D408 23118052 Diode, RU4Z	
D203 23115599 Diode, 1N4148 D301 23118479 Dlode, BYD33J D302 23118479 Dlode, SYD33J D312 23316794 Dlode, SC570A D320 23118822 Diode, ERB12-02 D321 23118822 Diode, ERB12-02 D340 23316658 Diode, Zener, MTZJ3.6A D401 23316792 Diode, SC215 D403 23316688 Diode, Zener, MTZJ9.1C D406 23118479 Diode, BYD33J D408 23118052 Diode, RU4Z	
D302 23118479 Dlode, BYD33J D312 23316794 Dlode, SC570A D320 23118822 Diode, ERB12-02 D321 23118822 Diode, ERB12-02 D340 23316658 Diode, Zener, MTZJ3.6A D401 23316792 Diode, SC215 D403 23316688 Diode, Zener, MTZJ9.1C D406 23118479 Diode, BYD33J D408 23118052 Diode, RU4Z	
D312 23316794 Dlode, SC570A D320 23118822 Dlode, ERB12-02 D321 23118822 Dlode, ERB12-02 D340 23316658 Dlode, Zener, MTZJ3.6A D401 23316792 Dlode, SC215 D403 23316688 Dlode, Zener, MTZJ9.1C D406 23118479 Dlode, BYD33J D408 23118052 Dlode, RU4Z	
D312 23316794 Dlode, SC570A D320 23118822 Dlode, ERB12-02 D321 23118822 Dlode, ERB12-02 D340 23316658 Dlode, Zener, MTZJ3.6A D401 23316792 Dlode, SC215 D403 23316688 Dlode, Zener, MTZJ9.1C D406 23118479 Dlode, BYD33J D408 23118052 Dlode, RU4Z	
D320         23118822         Diode, ERB12-02           D321         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D401         23316792         Diode, SC215           D403         23316688         Diode, Zener, MTZJ9.1C           D406         23118479         Diode, BYD33J           D408         23118052         Diode, RU4Z	
D321         23118822         Diode, ERB12-02           D340         23316658         Diode, Zener, MTZJ3.6A           D401         23316792         Diode, SC215           D403         23316688         Diode, Zener, MTZJ9.1C           D406         23118479         Diode, BYD33J           D408         23118052         Diode, RU4Z	
D401 23316792 Diode, SC215 D403 23316688 Diode, Zener, MTZJ9.1C D406 23118479 Diode, BYD33J D408 23118052 Diode, RU4Z	
D403 23316688 Diode, Zener, MTZJ9.1C D406 23118479 Diode, BYD33J D408 23118052 Diode, RU4Z	
D406 23118479 Diode, BYD33J D408 23118052 Diode, RU4Z	
D408 23118052 Diode, RU4Z	
D410 23316687 Diode, Zener, MTZ.I9 1B	
D471 A7801205 SCR, SF0R3G42	
D474 23316733 Diode, Zener, MTZJ20A	
D475 23316719 Diode, Zener, MTZJ12B	
D476 23118479 Diode, BYD33J	
D501 23316669 Diode, Zener, MTZJ5.1B	
D503 23115599 Diode, 1N4148	
D591 23316554 Diode, 1SS146	
D592 23316554 Diode, 1SS146	
D593 23316554 Diode, 1SS146	
D594 23115599 Diode, 1N4148	
D601 23115599 Diode, 1N4148	
D602 23115599 Diode, 1N4148	
D603 23115599 Diode, 1N4148	

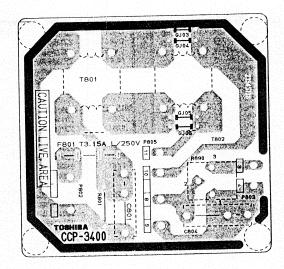
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	Location No.	Part No.	Description
ı	D605	23115599	Diode, 1N4148
1	D610	23115599	
١	D801	23118037	
١	D810	23316725	Diode, Zener, MTZJ15B
1	D811	23115599	Diode, 1N4148
-	D812	23118479	Diode, BYD33J
1	D813		Diode, 1N4148
1	D814		Diode, Zener, MTZJ5.6B
١	D815	23115599	Diode, 1N4148
ı	D816	23316648	Diode, 1N4148 Diode, Zener, MTZJ2.2A
1	D817	23118479	Diode, BYD33J
1	D818		Diode, BYD33J
1	D819	23316675	Diode, Zener, MTZJ6.2B
į	D830	23118052	Diode, RU4Z
ł	D832	23118451	Diode, RU-4A
1	D847	23115599	Diode, 1N4148
-1	D848		Diode, Zener, MTZJ4.7B
١	D860		Diode, Zener, MTZJ6.2A
- 1	D861	23316669	Diode, Zener, MTZJ5.1B
J	D870	23115599	Diode, 1N4148
١	D875		Diode, 1N4148
ı	D878		Diode, Zener, MTZJ10A
ł	DA01	23316675	Diode, Zener, MTZJ6.28
1	DA02	23115599	Diode, 1N4148
١	DA03		Diode, 1N4148
١	DA32		Diode, 1N4148
- 1	DA99		Diode, 1N4148
- 1	DD01		Diode, BYD33J
Į	DD02		Diode, ERC20-06
١	DD03		Diode, BYD33J
1	DD04		Diode, 1N4148
1	DD05	23115599	Diode, 1N4148
1	DD06	23115599	Diode, 1N4148 Diode (LED), MV57124, Red
	DE50 DN01	23110303	Diode (LED), MV37124, Red Diode, Zener, MTZJ5.1B
	DV01		Diode, 1N4148
1	DV04	******	D: 4. 4414440
	DV05	23316666	Diode, IN4148 Diode, Zener, MTZJ4.7B Diode, Zener, MTZJ5.1B
	DV07	23316669	Diode, Zener, MTZJ5.18
	DX01	23115599	Diode, 1N4148
	DX03		Diode, 1N4148
	DX04	23115599	Diode, 1N4148
1	MISCELLAN		Fuse. 3.15A
	73 F801A	23144898	
	<b>△F803</b>	23144874	Fuse, 0.8A
٠ ا	F803A	23165433	Holder, Fuse
	K901	23904750	
	P661	23365432	
	<b>∆</b> P801		Power Cord
ļ	PH01	23365598	Connector, 21Pin
	S202	23344333	Switch, Lever, 1C3P
	<b>∆</b> S801		Switch, Power, 2C2P
	SA01	23145430	Switch, Push, 1C1P
ļ	SA02	23145430	Switch, Push, 1C1P
	SA03	23145430	
	SA04	23145430	Switch, Push, 1C1P
	<b>∆∨901A</b>	23902891	
ĺ	W661	23351031	
	W662	23351031	
	X501	23153360	60x70mm, 3W Crystal, 4.43MHz

Location No.	Part No.	Description		
XA01	23153930	Crystal, 12.0MHz		
Z102	23303132	Filter, K2950M, 38.9M		
Z103	23107855	Ceramic Filter, 5.5MHz, TCF1031		
Z104	23107949	Ceramic Filter, 6.5MHz, SFE6.5MBF		
Z105	23107927	Ceramic Video Trap, 5.5MHz, TCF1011		
Z106	23107521	Ceramic Video Trap, 6.5MHz, TCF1068		
Z604	23107744	Filter, TEM1012		
Z605	23107744	Filter, TEM1012		
Z606	23107744			
Z607	23107744	Filter, TEM1012		
Z608	23107744	Filter, TEM1012		
Z609	23107744	Filter, TEM1012		
ZA01	24094645	Capacitor Block, 0.01µFx4, 50V		
PC BOARD	ASSEMB	LIES		
* U902A	23706067			
* U903A	23705767			
* U903B	23705768			
* U903C	23705769	DPC Board, PB6609A3		
* U903D	23705770	CRT Drive Boaard, PB6609A4		

Location No.	Part No.	Description
PICTURE T	UBE	
∆V901	23312643	Picture Tube, A59TMZ40X06
TUNER		
H001	23321209	Tuner, EGA13
ACCESSOR	RIES	
K902	23306084	Remote Hand Unit, CT-9784
AT03	23305743	Battery Cover
Y101	23562918	Owner's Manual, English, 2562TR
Y102	23562919	Owner's Manual, Russian, 2562TR
The growth of		
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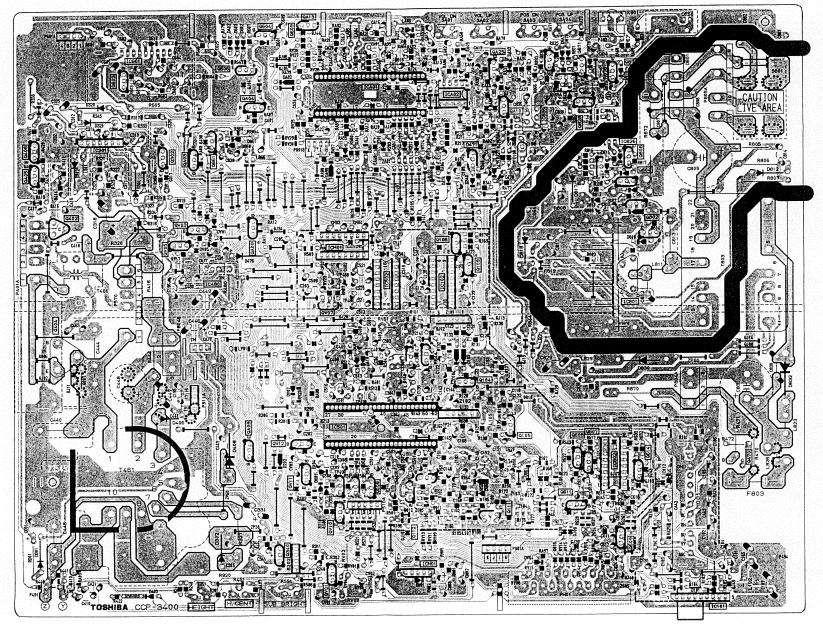
# POWER BOARD PB6609A1

BOTTOM (FOIL) SIDE



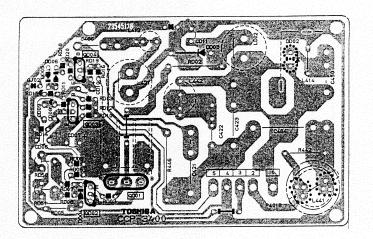
# MAIN BOARD PB6608E-1

BOTTOM (FOIL) SIDE



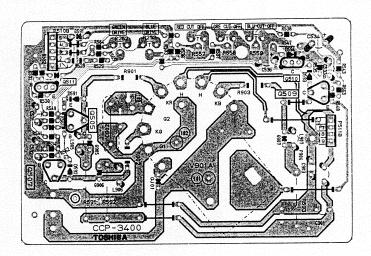
## DPC BOARD PB6609A3

BOTTOM (FOIL) SIDE



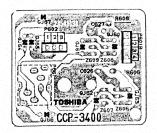
# CRT DRIVE BOARD PB6609A4

BOTTOM (FOIL) SIDE



# **HEADPHONE BOARD PB6609A2**

BOTTOM (FOIL) SIDE



## TERMINAL VIEW OF TRANSISTORS

1	BC327 BC337 BC547A BC547B BC547C BC557A BC557A BC556A	② 2SK30ATM 2SK117	③ BD202	(4) BF871 2SD553 2SC1569 8CE	(\$)	2SC3678 2SC3182N	)	) )
6	2SD1427 2SD1432 E C B	⑦ 28C2482 2SA1321 2SC2230 2SA1020 2SC2655 2SC752GTM	® 2SC388ATM 2SA1015 2SC1959 2SA562TM	⑤ 2SD1548	0	2SC2023	)	)
Φ	ON4409						)	J

SPECIFICATIONS				
94 watts, AC 220 volts, 50 Hz				
75 ohm unbalanced type for UHF and VHF				
CCIR (B/G PAL/SECAM) TV Broadcast Standard VHF: 2-4, 5-12, S1-S20, S21-S41 UHF: 21-69 CCIR (D/K PAL/SECAM) TV Broadcast Standard VHF: 2-4, 5-12, S1-S20, S21-S41 UHF: 21-69				
Picture I-F carrier frequency				
25 inches, A59TMZ40X06 590 mm (measured on diagonal of viewable picture area), 110 deflection				
3 watts (at 10% harmonic-distortion) × 2				
70 x 60 mm round 2 pc				
21 pin socket (FULL)				
Table type				
Height       556 mm         Width       600 mm         Depth       442 mm				
26 kg				

Specifications are subject to change without notice.

### SCHEMATIC DIAGRAM

MODEL: 2562TR

CAUTION: The international hazard symbols "\Delta" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 2. Do not degrade the safety of the receiver through improper servicing.

#### **OBSERVATION OF VOLTAGES AND WAVEFORMS**

- 1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 Voltages read with VIVM from point snown to chassis ground, line voltage zzu volts, colour bar signal. Voltages reading may vary ±20%.
   All waveforms are taken using a wide band oscilloscope and a low capacity probe.
   Waveforms are taken using a standard colour bar signal.
   Make sure that CONTRAST and COLOUR controls are in mid position and

- BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

#### **EXPRESSION**

## VALUE OF RESISTOR, CAPACITOR and INDUCTOR

- Resistance is shown in ohm, k=1,000, M=1,000,000
   Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
   Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

#### NOTES:

- D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
   The circuits are subject to change without notice.
- 3. 😩 : Solder links.

NOTE: DO NOT USE DIGITAL VOLT METER FOR MEASURING COLLECTOR VOLTAGE OF Q404.

# C4ER CIRCUIT SPEC COMPONENT VALUES BY CPT TYPE

No. Loc. No.	RI	
1		R2
2		
3		
4		
5		
6		
7		
8		
9		
0		
1		
2		
3		

# C4ER CIRCUIT SPEC COMPONENT VALUES BY CRYSTAL TYPE(SUPPLIER)

No. Loc. No.	R5	
1 X501	(N.D.K. )	R6
2 C516	14.0.6.7	IPHILIPS)
	<del></del>	

	UNIT SH.	COPE	ER SIDE PARTS
MAIN CRT-D	SN.	D410	5N. 23316324
		_	<del> </del>
L	JI		

